

ABSTRACT OF THE DISCLOSURE

A stack frame associated with a procedure that can alter or affect a shared resource where the procedure is associated with a child stack and is declared by a parent stack is marked isolated. Isolated stack frames are allotted an additional 5 predefined interval of processing time before commands such as terminate and interrupt applied to the child stack are executed. If the command is a terminate command, after the additional allotted time interval has passed, both child and parent stacks are terminated. If the command is an interrupt command, after the additional allotted time interval has passed, the child stack is interrupted. If the 10 command is a resource-terminated command, an operator is permitted to allocate more resource time to the task or may terminate both parent and child stacks. If a parent stack is terminated, all child stacks of the parent are terminated.

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